

Quiz 1

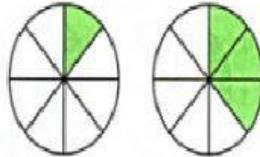
Name: _____ Date: _____

Add and subtract like fractions

Fill in the blanks. Solve the problem.

Annie ate $\frac{1}{8}$ of a pizza. Her brother ate $\frac{3}{8}$ of another pizza.

The pizzas are the same size.



How much pizza did they eat in all?

■ Each pizza is divided into _____ equal parts, or _____.

■ The first pizza has _____ part shaded.

The second pizza has _____ parts shaded.

There are _____ eighths shaded in all.

■ Add. $\frac{\square}{8} + \frac{\square}{8} = \frac{\square}{8}$

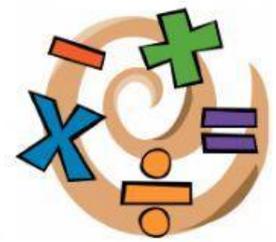
■ Simplify the answer.

$$\frac{4 \div 4}{8 \div 4} = \frac{\square}{\square}$$

Solution: They ate _____ of a pizza.

You can simplify a fraction by dividing the numerator and denominator by the **greatest common factor (GCF)**. The GCF is the greatest factor that the numbers have in common.





Add like fractions



Think It Through

Fill in the blanks. Solve the problem.

Heidi lives $\frac{1}{8}$ mile from Shady Park. José lives $\frac{6}{8}$ mile from the park.



How much closer does Heidi live to the park than José?

- Find the difference.

Subtract. $\frac{\square}{8} - \frac{\square}{8}$

- The model shows ____ eighths.

There are ____ equal parts in all, and ____ parts are shaded.

To subtract, cross out ____ eighths.

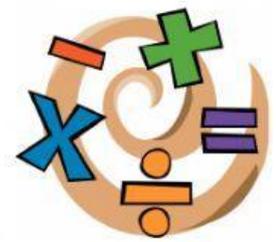
There are ____ eighths left over.

- So, $\frac{6}{8} - \frac{1}{8} = \frac{\square}{\square}$. This fraction cannot be simplified.

Solution: Heidi lives ____ mile closer to Shady Park than José.

If a fraction cannot be simplified, it is in **simplest form**. If the only common factor of a numerator and denominator is 1, then the fraction is in simplest form.





Add and subtract unlike fractions



Think It Through

Fill in the blanks. Solve the problem.

Mike is baking two different types of cookies. One recipe calls for $\frac{1}{4}$ cup of flour. The other recipe needs $\frac{1}{2}$ cup of flour. How much flour does he need all together?

- How can you find $\frac{1}{4} + \frac{1}{2}$?
- What are some multiples of 2? _____, _____, _____
What are some multiples of 4? _____, _____, _____
What is the least common multiple of 2 and 4? _____

- Which fraction does not need to be renamed? Shade the model.

--	--	--	--

- Write the other fraction with the common denominator. Shade the model to help you.

	×		=	
	×		=	

		=				
--	--	---	--	--	--	--

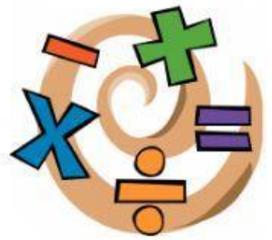
- Rewrite the problem using the fractions with the common denominator. Then add.

	+		=	
	+		=	

Solution: Mike needs _____ cup of flour to make the cookies.

When you need to find the common denominator of two fractions, always check to see if the greater denominator is a multiple of the other denominator.





Adding Fractions (A)

Find the value of each expression in lowest terms.

1. $\frac{11}{12} + \frac{1}{12}$

5. $\frac{1}{12} + \frac{5}{12}$

9. $\frac{2}{15} + \frac{7}{15}$

2. $\frac{1}{6} + \frac{1}{6}$

6. $\frac{11}{14} + \frac{1}{14}$

10. $\frac{1}{2} + \frac{1}{2}$

3. $\frac{1}{15} + \frac{2}{15}$

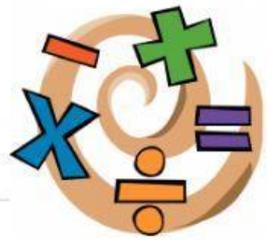
7. $\frac{3}{7} + \frac{4}{7}$

11. $\frac{1}{12} + \frac{1}{12}$

4. $\frac{6}{7} + \frac{1}{7}$

8. $\frac{1}{3} + \frac{2}{3}$

12. $\frac{2}{9} + \frac{4}{9}$



Adding Fractions (A)

Find the value of each expression in lowest terms.

1. $\frac{3}{4} + \frac{1}{16}$

5. $\frac{2}{5} + \frac{1}{10}$

9. $\frac{1}{4} + \frac{1}{2}$

2. $\frac{3}{14} + \frac{1}{3}$

6. $\frac{1}{19} + \frac{1}{2}$

10. $\frac{1}{2} + \frac{3}{16}$

3. $\frac{9}{11} + \frac{1}{11}$

7. $\frac{6}{19} + \frac{2}{3}$

11. $\frac{2}{11} + \frac{1}{2}$

4. $\frac{1}{3} + \frac{2}{17}$

8. $\frac{1}{3} + \frac{1}{6}$

12. $\frac{4}{11} + \frac{3}{8}$